



EL CAMINO COLLEGE
COURSE OUTLINE OF RECORD – Approved

I. Course Information

Subject: ART
Course Number: 160
Descriptive Title: Three-Dimensional Design
Division: Fine Arts
Course Disciplines: Art

Catalog Description:

This course is an introduction to the concepts and processes of three-dimensional design. Students design and construct projects involving linear and architectural models as well as relief and solid forms. Emphasis is placed on creative solutions to design problems using various construction techniques and materials.

Conditions of Enrollment:

Course Length: Full Term

Hours Lecture (per week): 2
Hours Laboratory (per week): 4
Outside Study Hours: 4
Total Hours: 108

Course Units: 3

Grading Method: Letter Grade only
Credit Status: Credit, degree applicable

Transfer CSU: Yes Effective Date: Prior to July 1992
Transfer UC: Yes Effective Date: Prior to July 1992

General Education:
ECC

Term: Other:

CSU GE:

Term: Other:

IGETC:

Term: Other:

II. Outcomes and Objectives

A. Student Learning Outcomes (SLOs) (The course student learning outcomes are listed below.)

SLO #1 Elements and Principles

Students will be able to demonstrate the ability to fabricate a three-dimensional project by appropriately applying an understanding of the elements and principles of design.

SLO #2 Utilizing Materials

Students will be able to demonstrate basic competency in utilizing materials and methods appropriate for three-dimensional design.

SLO #3 Problem-Solving

Students will be able to demonstrate basic problem-solving skills appropriate for the challenges inherent in each three-dimensional design project.

B. Course Objectives (The major learning objective for in this course are listed below)

1. Assess the material and technical requirements of three-dimensional design projects.
2. Create preliminary drawings that indicate the scale, the construction process, and the material needs of proposed three-dimensional design problems.
3. Design and construct linear forms capable of supporting twenty times their weight.
4. Design and construct expressive forms that evoke ideas, moods, or emotions.
5. Demonstrate construction techniques appropriate for use with wood, paper, plastic, and metal.
6. Carve and assemble forms that contain positive and negative shapes.
7. Analyze and evaluate three-dimensional designs in terms of project criteria, principles of design, and construction techniques.
8. Assess the degree to which concept, design, material, and technique are interrelated in finished three-dimensional designs.
9. Construct negative plaster molds to be used for casting relief forms.
10. Design and cast relief forms in plaster that utilize planes, textures, pattern, and reflected light.
11. Design and construct architectural scale models that include interior and exterior spaces, open and closed forms, as well as color and texture.

III. Outline of Subject Matter

(Topics should be detailed enough to enable an instructor to determine the major areas that should be covered to ensure consistency from instructor to instructor and semester to semester.)

Major Topics

I. Design Fundamentals (12 hours, lecture)

- A. Negative and positive shapes
- B. Scale and proportion
- C. Texture, pattern, and color
- D. Line, space, and mass
- E. Balance and counter-balance
- F. Symmetry and asymmetry
- G. Structure and function
- H. Composition and unity

II. Construction Materials and Techniques (12 hours, lecture)

- A. Paper, wood, plastic, and metal
- B. Glues and fasteners
- C. Rivets and nails
- D. Clamps and heat
- E. Assessing material needs
- F. Creating preliminary drawings

III. Constructing Linear Forms (12 hours, lecture)

- A. Economy and strength
- B. Design and structure
- C. Assembly and craftsmanship

IV. Creating Expressive Forms (12 hours, lab)

- A. Ideas and concepts
- B. Moods and emotions

V. Architectural Forms and Scale Models (12 hours, lab)

- A. Interior and exterior spaces
- B. Open and closed forms
- C. Color and texture
- D. Scale models and proportion

VI. Relief Forms and Light Effects (24 hours, lab)

- A. Plane and mass
- B. Positive and negative shapes
- C. Texture and pattern
- D. Direct and indirect light

VII. Casting Relief Forms (18 hours, lab)

- A. Making models
- B. Constructing plaster molds
- C. Pouring and finishing the cast form
- D. Cleaning and reusing the plaster mold
- E. Negative and positive shape
- F. Texture and color

VIII. Analysis and Criticism (6 hours, lab)

Total Lecture Hours:	36
Total Laboratory Hours:	72
Total Hours:	108

IV. Primary Method of Evaluation and Sample Assignments

A. Primary Method of Evaluation (choose one):

- 3) Skills demonstration

B. Typical Assignment Using Primary Method of Evaluation

Using toothpicks and glue, construct a linear form that can support five bricks. Demonstrate economy of design and efficient use of materials. Present the finished work in color.

C. College-level Critical Thinking Assignments

Critical Thinking Assignment 1:

Design and construct an architectural scale model using an L-shaped configuration. Include a bus stop or a covered sitting area. Create interior and exterior spaces, open and closed forms, and employ color and texture

Critical Thinking Assignment 2:

Design and construct a relief form using paper. Incorporate negative and positive shape relationships that enhance the effects of reflected light.

D. Other Typical Assessment and Evaluation Methods

Class Performance

V. Instructional Methods

Demonstration, Discussion, Lecture

If other:

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. Work Outside of Class

Journal (done on a continuing basis throughout the semester), Observation of or participation in an activity related to course content (such as theatre event, museum, concert, debate, meeting), Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research)

If Other:

VII. Texts and Materials

A. Up-to-date Representative Textbooks: (Please use the following format: Author, Title, Edition, Publisher, Year. If you wish to list a text that is more than 5 years old, please annotate it as a “discipline standard”.)

Mary Stewart, Launching the Imagination, 3D version, 5th ed., McGraw Hill, 2015.

Discipline Standard

B. Alternative Textbooks: (Please use the following format: Author, Title, Edition, Publisher, Year. If you wish to list a text that is more than 5 years old, please annotate it as a “discipline standard”.)

C. Required Supplementary Readings

D. Other Required Materials

VIII. Conditions of Enrollment

A. Requisites (Course Prerequisites and Corequisites) Skills needed without which a student would be highly unlikely to succeed.

Requisite:

Category:

Requisite course(s): List both prerequisites and corequisites in this box.

Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).

B. Requisite Skills: (Non-Course Prerequisite and Corequisites) Skills needed without which a student would be highly unlikely to succeed.

Requisite:

Requisite and Matching Skill(s): Bold the requisite skill(s). If applicable

C. Recommended Preparations (Course) (Skills with which a student's ability to succeed will be strongly enhanced.)

Requisite course:

Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).

D. Recommended Preparation (Non-Course) (Skills with which a student's ability to succeed will be strongly enhanced.)

Requisite:

Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable

E. Enrollment Limitations

Enrollment Limitations and Category:

Enrollment Limitations Impact:

Course Created by: David Patterson on 04/04/1988

Original Board Approval Date:

Last Reviewed and/or Revised by: Andrea Micallef

Date: 02/14/2021

Last Board Approval Date: 06/21/2021